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(54) CONTROLLED POWDERY AGENT FOR TRANSCUTANEOUS ADMINISTRATION

(57)Abstract:

PURPOSE: To obtain an agent for transcutaneous administration suitable for the continuous delivery of a systemic drug by adding a systemic drug and fine powder as essential components to a pressure-sensitive tacky adhesive base.

CONSTITUTION: A pressure-sensitive tacky adhesive base widely used in general is compounded with a systemic drug (preferably clonidine, estradiol, isosorbitol nitrate, etc.) and fine powder insoluble in the adhesive base, essentially resistant to the impregnation of the drug and having particle size of $\approx 80\mu\text{m}$ (preferably titanium oxide, silica or aluminum silicate) as essential components. The amount of the fine powder to be compounded to the base is preferably 10-30%. The tacky adhesive to be used in the tacky adhesive base is a thermoplastic elastomer (e.g. styrene-isoprene-styrene block copolymer), an acrylic adhesive, a silicone-based adhesive or a polyisobutylene-based adhesive. The start of the drug release and the adhesiveness to the skin can be improved by using a tacky adhesive layer having a double-layer structure consisting of a powder-containing tacky adhesive layer kept from contact with skin and a powder-free tacky adhesive layer contacting with skin.

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